

**Notice of Allowability**

Application No.

10/767,361

Examiner

Jonas N. Strickland

Applicant(s)

LU ET AL.

Art Unit

1754

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the claims filed on 1/29/04.
2. ☒ The allowed claim(s) is/are claims 1-6.
3. ☒ The drawings filed on 29 January 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 09/795,496.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 1/29/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

***Allowable Subject Matter***

1. Claims 1-6 are allowed.
2. The following is an examiner's statement of reasons for allowance: The instantly claimed invention is allowable over the cited prior art, because the cited prior art fails to disclose a stripping process for removing flue gas carried by a regenerated catalyst, wherein the regenerated catalyst is passed into the stripper from the upper part and introducing steam and the steam rapidly replacing the flue gas carried by the regenerated catalyst, the removed gas and the excessive steam being collected under a set of inner annular baffles and entering a degassing pipe through the opening part of the degassing pipe. Furthermore, the process is directed towards a specific stripper configuration.

Owen (US Patent 4,973,452) discloses a fluid catalytic cracking process and apparatus, which includes a high temperature stripper, followed by a spent catalyst, followed by a catalyst cooling to control the regeneration inlet temperature. The regenerator and the stripper are independently operated at their respective desired temperatures. However, Owen does not disclose a stripping process for removing flue gas carried by a regenerated catalyst, wherein the regenerated catalyst is passed into the stripper from the upper part and introducing steam and the steam rapidly replacing the flue gas carried by the regenerated catalyst, the removed gas and the excessive steam being collected under a set of inner annular baffles and entering a degassing pipe through the opening part of the degassing pipe. Furthermore, Owen does not disclose the specific stripper configuration.

Haddad et al. (US Patent 4,629,552) discloses a FCC catalyst separation method, which redirects catalyst particles and gas suspension movement towards a separator inlet. The catalyst deflector can be combined with one or more of a short contact time stripper, a stripper mount in or adjacent the exhaust barrel of a separator, and/or catalyst seal pot. However, Haddad et al. does not disclose a stripping process for removing flue gas carried by a regenerated catalyst, wherein the regenerated catalyst is passed into the stripper from the upper part and introducing steam and the steam rapidly replacing the flue gas carried by the regenerated catalyst, the removed gas and the excessive steam being collected under a set of inner annular baffles and entering a degassing pipe through the opening part of the degassing pipe. Furthermore, Haddad et al. does not disclose the specific stripper configuration as instantly claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


### ***Conclusion***


3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wegerer (US Patent 5,462,652).
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N. Strickland whose telephone number is 571-272-1359. The examiner can normally be reached on M-TH, 7:30-5:00, off 1st Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Jonas N. Strickland  
March 18, 2005

  
STANLEY S. SILVERMAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1700